## What is claimed is:

1. An enzymatic cleanser for cleaning of medical equipment and instruments which have bio-residue thereon, said cleanser comprising a composition which consists the following components,

water,
sodium formate,
sodium tripolyphosphate,
sodium xylene sulfonate,
protease enzyme, and
amylase enzyme.

- 2. A cleanser as in claim 1 wherein said water component is from 64% to 68% by weight.
- 3. A cleanser as in claim 1 wherein said sodium formate component is from 1 to 2% by weight.
- 4. A cleanser as in claim 1 wherein said sodium tripolyphosphate component is from4 to 6% by weight.

- A cleanser as in claim 1 wherein said sodium xylene sulfonate component is fromto 11% by weight.
- 6. A cleanser as in claim 1 wherein said protease enzyme component is from 3 to 5% by weight.
- A cleanser as in claim 1 wherein said amylase enzyme component is from 1 to
   3% by weight.
- 8. A cleanser as in claim 1 and also comprising calcium chloride.

9. A cleanser as in claim 8 wherein said calcium chloride component is from 0.1 to 0.3% by weight.

- 10. A cleanser as in claim 1 and also comprising alkoxylated isopropanolamide.
- 11. A cleanser as in claim 10 wherein said isopropanolamide component is from9 to 11% by weight.
- 12. A cleanser as in claim 1 and also comprising a sodium alkane sulfonate, sodium capryl mixture.
- 13. A cleanser as in claim 12 wherein said mixture component is from 0.5 to 1.5% by weight.

- 14. A cleanser as in claim 1 and including a fragrance of 0.1% by weight.
- 15. A cleanser for cleaning equipment and instruments which have bio-residue such as blood and other body fluids adhered thereto in a dried state, said cleanser comprising a solution which consists of the following components:

a solvent,
an enzyme stabilizer for removing trivalent metallic ions,
a buffer to keep the solution pH near 11 and for removing metallic oxides,
carbonates and sulfides,
a hydrotropic nonionic surfactant,
a compound to remove protein based materials,
and a compound to remove carbohydrate based materials.

- 16. A cleanser as in claim 15 wherein said solvent is water.
- 17. A cleanser as in claim 16 wherein said water is present from 64 to 68% by weight.
- 18. A cleanser as in claim 15 wherein said enzyme stabilizer is sodium formate.
- 19. A cleanser as in claim 18 wherein said sodium formate is present from 1 to2% by weight.
- 20. A cleanser as in claim 15 wherein said buffer is sodium tripolyphosphate.
- 21. A cleanser as in claim 20 where said sodium tripolyphosphate is present from

- 4 to 6% by weight.
- 22. A cleanser as in claim 15 wherein said hydrotropic nonionic surfactant is sodium xylene sulfonate.
- 23. A cleanser as in claim 22 wherein said sodium xylene sulfonate is present from9 to 11% by weight.
- 24. A cleanser as in claim 15 wherein said compound to remove protein based materials is protease enzyme.
- 25. A cleanser as in claim 24 wherein said protease enzyme is present from3 to 5% by weight.
- 26. A cleanser as in claim 15 wherein said compound to remove carbohydrate based materials is amylase enzyme.
- 27. A cleanser as in claim 26 wherein said amylase enzyme is present from 1 to 3% by weight.
- 28. A cleanser as in claim 15 and also containing a nonionic surfactant.
- 29. A cleanser as in claim 28 wherein said nonionic surfactant is alkoxylated isopropanolamide.
- 30. A cleanser as in claim 29 wherein said alkoxylated isopropanolamide is9 to 11% by weight.
- 31. A cleanser as in claim 15 wherein said compound also contains an anionic

- surfactant which is hydrotropic and low foaming.
- 32. A cleanser as in claim 31 wherein said anionic surfactant is sodium alkane sulfonate.
- 33. A cleanser as in claim 32 wherein said sulfonate is present from 0.5 to1.5% by weight.
- 34. A cleanser as in claim 15 wherein said composition also contains a fragrance.
- 35. A method of making a non-toxic cleanser for equipment and instruments which have bio-residue attached thereto, said method comprising,

adding and mixing the following ingredients,

a solvent,

an enzyme stabilizer,

a buffer for pH,

hydrotropic nonionic surfactant,

compound to remove protein based materials, and

compound to remove carbohydrate based materials,

mixing all the aforesaid ingredients until all solids are dissolved.

- 36. A method as in claim 35 wherein said solvent is water from 64 to 68% by weight.
- 37. A method as claim 35 wherein said enzyme stabilizer is sodium formate from1 to 2% by weight.

- 38. A method as in claim 35 wherein said buffer is sodium tripolyphosphate and is present from 4 to 6% by weight.
- 39. A method as in claim 35 wherein said hydrotropic nonionic surfactant is sodium xylene sulfonate from 9 to 11% by weight.
- 40. A method as in claim 35 wherein said compound to remove protein based materials is protease enzyme from 3 to 5% by weight.
- 41. A method as in claim 35 wherein said compound to remove carbohydrate based materials is amylase enzyme from 1 to 3% by weight.
- 42. A method as in claim 35 wherein said mixture includes calcium chloride from 0.1 to 0.3% by weight.
- 43. A method as in claim 35 and including the following:

alkoxylated isopropanolamide, and a sodium alkane sulfonate, sodium capryl mixture.

said isopropanolamide and mixture being combined and then added to the previously mixed ingredients.

- 44. A method as in claim 43 wherein said isopropanolamide is present from 9 to 11% by weight and said mixture is present from 0.5 to 1.5% by weight.
- 45. A method as in claim 35 and including a fragrance.

46. A method of cleaning instruments and equipment which have a bio residue thereon, said method comprising,

· immersing in and/or applying a composition having the following components to said equipment and instruments,

water from 64 to 68% by weight, sodium formate from 1 to 2% by weight, sodium tripolyphosphate from 4 to 6% by weight, sodium xylene sulfonate from 9 to 11% by weight, a protease enzyme from 3 to 5% by weight, and a amylase enzyme from 1 to 3% by weight.

rinsing said equipment and instruments after cleaning.

- 47. A method as in claim 46 wherein said composition also includes a calcium chloride from 0.1 to 0.3% by weight.
- 48. A method as in claim 46 which also includes the following ingredients, alkoxylated isopropanolamide from 9 to 11% by weight, and sodium alkane sulfonate from 0.5 to 1.5% by weight.
- 49. A method as in claim 46 wherein said composition also contains a fragrance.

50. An enzymatic cleanser for cleaning of medical equipment and instruments which have a bio-residue thereon, said cleanser comprising a composition which consists of the following components,

water
sodium formate,
sodium tripolyphosphate,
hydrotropic surfactant
proteast enzyme,
amylase enzyme, and
a nonionic surfactant.

51. A cleanser as in claim 51 wherein said water component is from 50 to 58% by weight.

- 52. A cleanser as in claim 51 wherein said sodium formate is from 0.5 to 2% by weight.
- 53. A cleanser as in claim 51 wherein sodium tripolyphosphate is from 0.5 to 2.5% by weight.
- 54. A cleanser as in claim 51 wherein said hydrotropic surfactant is from 15 to 20% by weight.

- 55. A cleanser as in claim 51 wherein said protease enzyme is from 2 to 5% by weight.
- 56. A cleanser as in claim 51 wherein said amylase enzyme is from 0.9 to 2.5% by weight.
- 57. A cleanser as in claim 51 wherein said nonionic surfactant is from 4 to 5% by weight.
- 58. A cleanser as in claim 57 wherein said nonionic surfactant is Alkoxylated Isopropanolamide.
- A cleanser as in claim 57 wherein said nonionic surfactant is DehyponLS 54.
- 60. A cleanser as in claim 51 and also comprising calcium chloride.
- 61. A cleanser as in claim 60 wherein said calcium chloride is from 0.1 to 0.3% by weight.
- 62. A cleanser as in claim 51 and also comprising Laural Alcohol Alkoxylate.
- 63. A cleanser as in claim 62 wherein said Laual Alcohol Alkoxylate is from 3 to 5% by weight.
- 64. A cleanser as in claim 51 and also comprising a hydrotropic anionic surfactant.
- 65. A cleanser as in claim 64 wherein said surfactant is sodium alkane sulfonate.

- 66. A cleanser as in claim 65 wherein said sodium alkane sulfonate is from 0.4 to 0.8% by weight.
- 67. A cleanser as in claim 51 and including sodium borate decahydrate to improve long term enzyme stability.
- 68. A cleanser as in claim 67 wherein said decahydrate is from 1 to 2% by weight.
- 69. A cleanser as in claim 51 and also including 3 to 10% Propylene Glycol by weight.
- 70. A cleanser as in claim 51 and also including 0.1% Propylparaben as a preservative.
- 71. A cleanser as in claim 51 and also including 0.1% Methyparaben as a preservative.
- 72. A cleanser as in claim 51 and also including a fragrance to give the composition a pleasant odor.
- 73. A method of making a non-toxic cleanser for equipment and instruments which have bio-residue on them, said method comprising

adding and mixing the following ingredients

a solvent

enzyme stabilizers

a buffer for pH

hydrotropic nonionic surfactant

protease enzyme
amylase enzyme
a nonionic surfactant
a solubility improver
a hydrotropic anionic surfactant
sodium borate decahydrate

propylene glycol

mixing all of the aforementioned ingredients until all solids are dissolved.

- 74. A method as in claim 73 wherein one half of the solvent is first mixed with the enzyme stabilizers to create a first batch, the remainder of the solvent is mixed with the buffer and hydrotropic surfactant to create a second batch, the nonionic surfactant and hydrotropic anionic surfactant are combined with 20% of the decahydrate are combined and then added to the second batch, the protease enzyme, amaylase enzyme, propylene glycol and a preservative are added to 80% of the decahydrate to create a third batch, the first batch is cooled and batch 3 is slowly added thereto and the combined batches are then added to batch 2 to finish the method of making the cleanser.
- 75. A method as in claim 74 wherein a preservative such as propylparaben is added to the third batch.
- 76. A method as in claim 73 and including adding a fragrance to the mixture to give it a pleasant odor.

- 77. A method as in claim 73 wherein said enzyme stabilizers are calcium chloride and sodium formate.
- 78. A method as in claim 73 wherein said buffer is sodium tripolyphosphate.
- 79. A method as in claim 73 wherein said hydrotropic surfactant is sodium xylenesulfonate.
- A method as in claim 73 nonionic surfactant is alkoxylated isopropanolamide or Dehypon LS 54.
- 81. A method as in claim 73 wherein said hydrotrophic anioinic surfactant is sodium alkane sulfonate.